

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application of: COOK, Bruce A., et al.
For: DUCTILE BINDER PHASE FOR USE WITH AlMgB_{14} AND OTHER HARD
MATERIALS ,

the specification of which is being transmitted herewith.

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

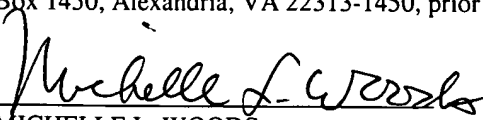
Attached are Forms PTO/SB/08A and 08B (formerly Form PTO-1449) listing the relevant art known to the applicant herein. The Examiner is requested to consider the references and make them of record. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 60/422,001, filed on October 29, 2002.

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose. Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement, except those identified above.

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The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. (Notice of January 9, 1992, 1135 O.G. 13-25, at 25.)

Respectfully submitted,



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Attorneys of Record

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| | | | | | | |
| | | | | Application Number | | |
| | | | | Filing Date | | |
| | | | | First Named Inventor | | COOK, Bruce A. |
| | | | | Art Unit | | |
| | | | | Examiner Name | | |
| Attorney Docket Number | | P05820US01 | | | | |
| Sheet | 1 | of | 2 | | | |

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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|--------------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials * | Cite No. ¹ | Foreign Patent Document Country Code ³ -Number ⁴ - Kind Code ⁶ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | 3 | JP 2003-128466 with machine translation | | | | |
| | 4 | JP 2003-192441 with machine translation | | | | |
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Applicant's unique citation designation number (optional).² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Application Number | |
| | | | | Filing Date | |
| | | | | First Named Inventor | COOK, Bruce A. |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 2 | of | 2 | Attorney Docket Number | P05820US01 |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | | |
|---|--------------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 5 | Y. TIAN et al., Microstructure and nanomechanical properties of A1-Mg-B-Ti films synthesized by pulsed laser deposition, Thin Solid Films 418 (2002) 129-135 | |
| | 6 | RAM CHERUKURI et al., Pulsed laser deposition of A1MgB ₁₄ on carbide inserts for metal cutting, Surface and Coatings Technology 155 (2002) 112-120 | |
| | 7 | Y. TIAN et al., Microstructure Evolution of A1-Mg-B Thin Films by Thermal Annealing, Journal of Vacuum Science & Technology, Vol. 21 (4), pp. 1055-1063, 2003 | |
| | 8 | RAM CHERUKURI and PAL MOLIAN, Lathe Turning of Titanium Using Pulsed Laser Deposited, Ultra-Hard Boride Coatings of Carbide Inserts, Machine Science and Technology, Vol.7, No. 1, pp. 119-135, 2003 | |
| | 9 | B. A. COOK, et al., A New Class of Ultra-Hard Materials Based On A1MgB ₁₄ , Scripta mater, 42(2000) 597-602 | |
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